

SECTION I – BACKGROUND INFORMATION

A. Purpose

A Construction Stormwater Control Plan consists of temporary and permanent controls to be used in construction to prevent erosion or transport of sediment or other pollutants from the site. The most common details, means, and methods are shown on this plan: other measures may be required if necessary.

B. Scope

All land disturbing activities are required to control erosion. DCLU reviews and approves erosion control for DCLU permit applications with more than 750 square feet of land disturbance. This standardized Small Project Construction Stormwater Control Plan was developed to assist the small project permit applicant in designing his or her erosion control.

C. Definitions

**BEST MANAGEMENT PRACTICE (BMP)** – Means a physical, structural, or managerial practice or device that prevents, reduces, or treats contamination of water or which prevents or reduces soil erosion. 1. **NON-STRUCTURAL or OPERATIONAL BEST MANAGEMENT PRACTICES** are those pollution control strategies that require modified or additional behavioral practices, such as sweeping a parking lot, or maintaining special equipment on site such as spill response equipment. 2. **STRUCTURAL BEST MANAGEMENT PRACTICES** are those pollution control strategies that require the construction of a structural or other physical modification on the site.

**GRADING** – means excavation, fill, in-place ground modification, or any combination thereof, including the establishment of a grade following demolition of a structure.

**LAND-DISTURBING ACTIVITY** – Means any activity that results in a movement of earth, or a change in the existing soil cover (both vegetative and nonvegetative) or the existing topography. Land-disturbing activities include, but are not limited to, clearing, grading, filling, excavation, or addition or replacement of impervious surface.

**SIDE SEWER** – is as defined in the Side Sewer Ordinance, Seattle Municipal Code Section 21.16.030.

**WATERCOURSE** – Means the route, constructed or formed by humans or by natural processes, generally consisting of a channel with bed, banks or sides, in which surface water flows. Watercourse includes small lakes, bogs, streams, creeks, and intermittent artificial components (including ditches and culverts) but does not include receiving waters.

Responsible Party

- Means all of the following persons:
1. Owners and occupants of property within the City of Seattle.
  2. Any person causing or contributing to a violation of the provisions of this subtitle.

SECTION II – INSTRUCTIONS FOR USE OF THIS PLAN

A. GENERAL PLAN INFORMATION

Section IIb has been provided for the applicant to draw the project Construction Stormwater Control Plan. The applicant may also draw stormwater control details on the permit application plan set site plan in lieu of completing Section IIb.

1. Designate north arrow, pick the scale the plan will be drawn to, label the address and street name fronting structure and draw property lines.
2. Show and identify all existing and proposed structures on the site.
3. Locate and size all streams, swales, and drainage channels on or within 25–feet of the site that may involve or affect the drainage of the site to be developed. Indicate all existing stormwater and sanitary sewer pipes.
4. Indicate the direction and location of surface water runoff entering and exiting the site from all adjacent property. This may be done with topographic contour lines or directional arrows..
5. Indicate what types of systems will be used to convey runoff away from the proposed structures.
6. Show all minimum stormwater controls to be used during construction and to permanently stabilize the site. See REQUIREMENTS, below.

B. REQUIREMENTS

Some or all of the following erosion control methods will be required, depending upon the nature and scope of project. Identify items that may be a problem during construction, and choose BMP's that will mitigate construction impacts.

Complete construction stormwater control details and requirements may be found in the "Construction Stormwater Control Technical Requirements Manual", Volume 2 of the City of Seattle Stormwater, Grading, and Drainage Control Code (SMC 22.800.)

1. From October 1 to April 30, no soil shall remain unstabilized for more than two days. From May 1 to September 30, no soils shall remain unstabilized for more than seven days. Stabilize all soils, including stockpiles that are temporarily exposed. Use one of the following to temporarily stabilize soils, including stockpiles: E1.10 Temporary Seeding, E1.15 Mulching and Matting, E1.20 Clear Plastic Covering, E2.20 Dust Control

2. After construction but before project is considered completed, permanently stabilize all exposed soils that have been disturbed during construction. Use one of the following to permanently stabilize soils: E1.35 Permanent Seeding or Planting, E1.40 Sodding

3. Use one of the following to prevent the transport of sediment from the site: E3.10 Filter fence, E3.15 Straw bale barrier, E3.20 Brush barrier, E3.25 Gravel filter berm, E3.40 Sediment pond, E3.35 Sediment trap. Retaining natural vegetation and buffer zones are encouraged, but may not be used as a substitute.

4. During construction, prevent the introduction of pollutants in addition to sediment into stormwater. Comply with the requirements for each of the following construction related activities: C1.10 Pesticide control, C1.20 Handling petroleum products, C1.30 Nutrient application, C1.40 Solid waste handling/disposal, C1.50 Use of chemicals during construction

5. Limit construction vehicle access, whenever possible, to one location. Stabilize all access points. Provide periodic street cleaning by sweeping or shoveling any sediment that may have been tracked out. Place sediment in a suitable disposal area where it will not erode again. E2.10 Stabilized Construction Entrance, E2.15 Construction Road Stabilization

6. Inspect and maintain required erosion controls to ensure continued performance of their intended function.

7. Prevent sediment from entering all storm drains, including ditches, which receive runoff from the disturbed area. Provide catch basin and inlet inserts or other receiving structure protection wherever necessary.

8. Street use permit shall be obtained from S–DOT for temporary drainage discharge, sidewalk closure and/or material storage in street and/or alley right-of–way.

Construction Stormwater Control Inspection Fees

Each project is charged a fee at the time of permit issuance to cover one or more construction erosion control inspections, depending on the size of the project. Each construction erosion control inspection thereafter is charged at \$150 per hour: the number of inspections is determined by DCLU site inspector according to the effectiveness of the project's construction erosion control measures.

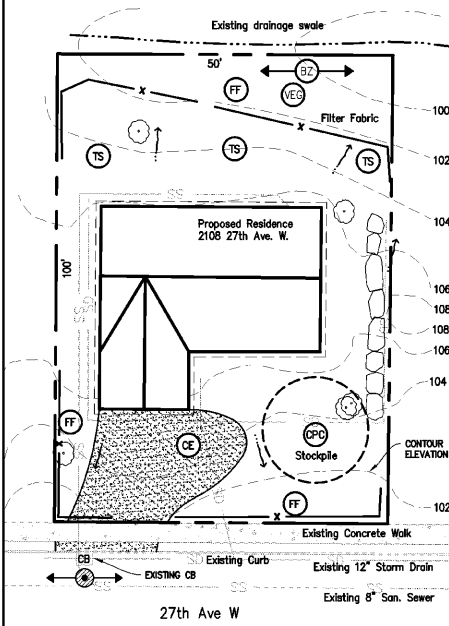
I agree to meet each requirement noted above and to use each stormwater control shown in the Site Plan (Section IIb on this sheet) to prevent erosion and sediment from leaving the site of project number \_\_\_\_\_ I understand that I may be required to use additional controls if the controls on the site plan are not sufficient to prevent erosion or the transport of sediment or other pollutants from the site.

Signature of owner or agent \_\_\_\_\_ Date \_\_\_\_\_

STANDARD DETAILS

PERIMETER	ACCESS	COVER	RUNOFF CONTROL																				
<b>PRESERVING NATURAL VEGETATION</b> E1.25 <p>TREE FENCING SHALL BE A MINIMUM OF 4' HIGH ORANGE POLYETHYLENE LAMINAR SAFETY NETTING.</p> <p>POSTS SETTING TO 2' IN GROUND MADE OF DURABLE METAL 1" OR EQUIVALENT</p> <p>CANOPY DRIP LINE</p> <p>PROTECTIVE FENCING DURING CONSTRUCTION</p> <p>PROTECTED ROOT ZONE WITHIN THE CANOPY DRIP LINE—ACTUAL FEEDER ROOTS EXTEND WELL BEYOND DRIP LINE</p> <p>MINIMIZE CONSTRUCTION ZONE; PROTECT VEGETATION OUTSIDE CONSTRUCTION ZONE BY SEGREGATING IT WITH HIGH VISIBILITY CONSTRUCTION FENCING.</p>	<b>STABILIZED CONSTRUCTION ENTRANCE</b> E2.10 <p>EXIST. ROAD</p> <p>R=25' MIN.</p> <p>4'-8" QUARRY SPALLS</p> <p>GEO-TEXTILE FABRIC</p> <p>12" MIN. THICKNESS</p> <p>PROVIDE FULL WIDTH INGRESS/EGRESS AREA</p> <p>LENGTH AND WIDTH AS NECESSARY TO PROTECT SITE FROM ALL VEHICLE TRAFFIC AND PARKING.</p> <p>STABILIZED ACCESS SHALL BE USED IN ALL AREAS OF THE SITE WITH VEHICLE TRAFFIC AND PARKING, INCLUDING PLANTING STRIPS. OTHER MEANS OF PROVIDING STABILIZED ACCESS WILL BE CONSIDERED.</p>	<b>TEMPORARY SEEDING OF STRIPPED AREAS</b> E1.10 <p>SEEDING MAY BE USED ONLY BETWEEN APRIL 1 AND JUNE 30, AND SEPTEMBER 1 AND OCTOBER 30.</p> <p>AREA STRIPPED AND THEN TEMPORARILY SEEDING, USING EITHER BROADCAST SEEDING OR HYDRO SEEDING.</p> <table border="1"><caption>TABLE 2. SEEDING MIXTURES*</caption><thead><tr><th>NAME</th><th>PROPORTIONS BY WEIGHT</th><th>% PURITY</th><th>% GERMINATION</th></tr></thead><tbody><tr><td>REDTOP (AGROSTIS ALBA)</td><td>100%</td><td>92</td><td>90</td></tr><tr><td>ANNUAL RYE (LOLIUM MULTIFLORUM)</td><td>40%</td><td>98</td><td>90</td></tr><tr><td>CHEWINGS FESCUE (FETUCA RUBRA COMUTATA)</td><td>40%</td><td>97</td><td>80</td></tr><tr><td>WHITE DUTCH CLOVER (TRIFOLIUM REPENS)</td><td>40%</td><td>96</td><td>90</td></tr></tbody></table>	NAME	PROPORTIONS BY WEIGHT	% PURITY	% GERMINATION	REDTOP (AGROSTIS ALBA)	100%	92	90	ANNUAL RYE (LOLIUM MULTIFLORUM)	40%	98	90	CHEWINGS FESCUE (FETUCA RUBRA COMUTATA)	40%	97	80	WHITE DUTCH CLOVER (TRIFOLIUM REPENS)	40%	96	90	<b>FILTER FENCE</b> E3.10 <p>2' X 4' WOOD POSTS, STD. OR BETTER; ALT. STEEL FENCE POSTS</p> <p>FILTER FABRIC MATERIAL 60" WIDE ROLLS. USE STAPLES OR WIRE TIES TO ATTACH FABRIC TO WIRE MESH 700X OR PRE-APPROVED EQUAL.</p> <p>2' X 2' X 14ga WIRE FABRIC OR EQUIV.</p> <p>BURY BOTTOM OF FILTER MATERIAL IN 8" X 12" TRENCH</p> <p>2' X 2' BY 14ga WIRE FABRIC OR EQUIV.</p> <p>PROVIDE 3/4" X 1.5" WASHED GRAVEL BACKFILL IN TRENCH AND ON BOTH SIDES OF FENCE FABRIC ON THE SURFACE</p>
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<b>REASON:</b> TO REDUCE EROSION BY PRESERVING NATURAL VEGETATION WHEREVER PRACTICABLE. <b>SYMBOL:</b>	<b>REASON:</b> TO REDUCE THE AMOUNT OF MUD, DIRT, ROCKS, ETC. TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF. <b>SYMBOL:</b>	<b>REASON:</b> TO PROVIDE TEMPORARY SOIL STABILIZATION BY PLANTING GRASSES AND LEGUMES TO AREAS THAT WOULD REMAIN BARE FOR MORE THAN 7 DAYS WHERE PERMANENT COVER IS NOT NECESSARY OR APPROPRIATE. <b>SYMBOL:</b>	<b>REASON:</b> TO INTERCEPT & DETAIN SMALL AMOUNTS OF SEDIMENT UNDER SHEET FLOW CONDITIONS FROM DISTURBED AREAS DURING CONSTRUCTION TO DECREASE VELOCITY OF SHEET FLOWS. <b>SYMBOL:</b>																				
<b>BUFFER ZONES (UNDISTURBED VEGETATED AREA)</b> E1.30 <p>50' BUFFER ZONE (MIN.)</p> <p>100+ 5' WETLAND</p> <p>"CLASS B" STREAM 25' BUFFER ZONE (MIN.)</p> <p>STREAM OR BANK</p> <p>"CLASS A" STREAM (CHALLIER &amp; BITTER LAKE) 50' BUFFER ZONE (MIN.)</p> <p>HIGH VISIBILITY CONSTRUCTION FENCE AND FILTER FABRIC FENCE OR EQUAL</p> <p>MINIMIZE CONSTRUCTION ZONE; PROTECT VEGETATION OUTSIDE CONSTRUCTION ZONE BY SEGREGATING IT WITH HIGH VISIBILITY CONSTRUCTION FENCING.</p>		<b>MULCHING &amp; MATTING</b> E1.15 <p>SHALLOW SLOPE (&lt;3:1)</p> <p>ON SHALLOW SLOPES, STRIPS OF NETTING MAY BE APPLIED ACROSS THE SLOPE</p> <p>ON STEEP SLOPES, APPLY STRIPS OF NETTING PARALLEL TO THE DIRECTION OF THE FLOW AND ANCHOR SECURELY</p> <p>JUTE MATTING OR OTHER BIODEGRADABLE MATERIAL</p> <p>BERM</p> <p>WHERE THERE IS A BERM AT THE TOP OF THE SLOPE, BRING THE NETTING OVER THE BERM AND ANCHOR IT BEHIND THE BERM</p>	<b>STRAW BALE BARRIER</b> E3.15 <p>1. EXCAVATE THE TRENCH</p> <p>2. PLACE AND STAKE STRAW BALES</p> <p>3. WEDGE LOOSE STRAW BETWEEN BALES</p> <p>4. BACKFILL AND COMPACT THE EXCAVATED SOIL</p> <p>BINDING WIRE OR TWINE</p> <p>STAKED &amp; ENTRENCHED STRAW BALE</p> <p>FILTERED RUNOFF</p> <p>SEDIMENT LADEN RUNOFF</p> <p>COMPACTED SOIL TO PREVENT PILING</p>																				
<b>REASON:</b> AN UNDISTURBED AREA OR STRIP OF NATURAL VEGETATION OR AN ESTABLISHED SUITABLE PLANTING THAT WILL PROVIDE A LIVING FILTER TO REDUCE SOIL EROSION AND RUNOFF VELOCITIES. <b>SYMBOL:</b>	<b>REASON:</b> <b>SYMBOL:</b>	<b>REASON:</b> TO PROVIDE IMMEDIATE PROTECTION TO EXPOSED SOILS DURING THE PERIOD OF SHORT CONSTRUCTION DELAYS. <b>SYMBOL:</b>	<b>REASON:</b> TO INTERCEPT & RETAIN SMALL AMOUNTS OF SEDIMENT AND DECREASE THE VELOCITY OF SHEET FLOW AND LOW TO MODERATE LEVEL CHANNEL FLOWS. <b>SYMBOL:</b>																				
<b>STORM DRAIN INLET (INSERT)</b> E3.30 <p>PRE-MANUFACTURED CATCH BASIN OR INLET INSERT</p> <p>OVERFLOW (TO BYPASS PEAK STORM VOLUMES)</p> <p>INSERTS SHOULD BE INSPECTED DAILY AND AFTER SIGNIFICANT RAINFALL. CLEAN OR REPLACE INSERTS WHEN HALF OF THE TRAP IS FILLED WITH SEDIMENT.</p>		<b>CLEAR PLASTIC COVERING</b> E1.20 <p>STOCKPILES</p> <p>STRAW WATTLE</p> <p>ANCHOR WEIGHTS WITH STAKES</p> <p>10' MAX.</p> <p>SOIL BERM</p> <p>STRAW BALES</p> <p>CONVEY RUNOFF TO APPROVED LOCATION.</p> <p>CUT SLOPES</p> <p>ANCHOR WEIGHTS WITH STAKES</p> <p>CONVEY RUNOFF TO APPROVED LOCATION.</p> <p>10' MAX.</p> <p>10' MIN.</p> <p>PROVIDE ENERGY DISSIPATION AT TOE WHEN NEEDED.</p> <p>TOE IN SHEETING IN 4 IN. X 6 IN. TRENCH A MINIMUM OF 3 FT. SETBACK FROM BOTTOM OF SLOPE. BACKFILL WITH WASHED ROCK.</p> <p>CONVEY RUNOFF TO APPROVED LOCATION.</p>	<b>STRAW WATTLE</b> <p>NOTE: 1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH 3"-6" DEEP, DIG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.</p> <p>STRAW ROLLS MUST BE PLACED ALONG SLOPE CONTOURS</p> <p>ADJACENT ROLLS SHALL TIGHTLY ABUT</p> <p>SPACING DEPENDS ON SOIL TYPE AND SLOPE STEEPNESS</p> <p>SEDIMENT, ORGANIC MATTER, AND NATIVE SEEDS ARE CAPTURED BEHIND THE ROLLS. 3"-6"</p>																				
<b>REASON:</b> TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. <b>SYMBOL:</b>	<b>REASON:</b> <b>SYMBOL:</b>	<b>REASON:</b> TO PROVIDE IMMEDIATE TEMPORARY EROSION PROTECTION TO SLOPES AND DISTURBED AREAS THAT CANNOT BE COVERED BY MULCHING & MATTING. <b>SYMBOL:</b>	<b>REASON:</b> TO INTERCEPT & RETAIN SMALL AMOUNTS OF SEDIMENT AND DECREASE THE VELOCITY OF SHEET FLOW. <b>SYMBOL:</b>																				

SAMPLE TEMPORARY EROSION & SEDIMENTATION CONTROL PLAN



SECTION IIIa – SAMPLE PLAN (NOT TO SCALE)

ADDRESS:

PROPERTY OWNER:

APPLICANT:

SITE PLAN CHECK LIST:

- ☐ **SCALE**  
1"=5', 1"=10' or 1"=20'
- ☐ **NORTH ARROW**
- ☐ **LOT DIMENSIONS**  
Including street names and driveways.
- ☐ **NEW AND/OR EXISTING BUILDING FOOTPRINT**  
Include porches, walks, decks, roof lines, overhangs and floor cantilevers.
- ☐ **BUFFERS**  
Including required buffer areas, open spaces and green belts.
- ☐ **SURFACE WATER DRAINAGE**  
Including shorelines, wetlands, ponds, ditches, and streams.
- ☐ **SITE CONTOURS**  
Contour intervals showing elevation of the land may be expressed relative to any fixed point on the site. (GIS data available from DCLU).
- ☐ **RETAINING WALLS**  
Including rockeries and retaining walls

NOTE: THIS PLAN IS CONCEPTUAL; MODIFICATIONS MAY BE REQUESTED BY DCLU INSPECTOR DURING CONSTRUCTION.

SECTION IIIb – SITE PLAN

CHECK SCALE USED: ☐ ONE SQUARE = ONE FOOT (1"=1')  
☐ ONE SQUARE = TWO FEET (1"=2')  
☐ ONE SQUARE = THREE FEET (1"=3')

February 2003

SMALL PROJECT CONSTRUCTION STORMWATER CONTROL PLAN

For projects of less than 5,000 sf of new or replaced impervious surface or less than 1 acre of land disturbing activity

Applicant Plan Sheet

CITY OF SEATTLE



SHEET

CSC  
STANDARD  
PLAN

DESIGNED BY K. AMINIAN, P.E.